ALEX MACHIN-MAYES

GIS PROFESSIONAL

CONTACT

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EDUCTATION

MS, CARTOGRAPHY AND GIS
University of Wisconsin - Madison, 2021
Phi Kappa Phi | 4.0/4.0 GPA

BA, HUMAN GEOGRAPHY
MINOR, GIS
Western Washington University, 2012

CORE SKILLS

GIS Processing & Analysis
Cartographic Visualization
Geodatabase Configuration
GPS Data Collection
Web Map Development

PROFICIENCIES

GIS
ArcGIS Desktop & Pro, ArcGIS Online,
ArcGIS for Collector, Model Builder,
Parcel Fabrics, COGO, LGIM, ArcGIS
Developer, ArcPy, QGIS, GRASS

Geodatabases
SQL expressions, schemas, topologies,
coded value domains, relationships

Related Tools
Adobe Creative Suite, Mapbox Studio,
Trimble Pathfinder Office, U.S. Census
data mapping, urban & international
geography, research & writing

Working Knowledge
ArcGIS API for JavaScript, HTML, CSS,
JavaScript, Bootstrap, Python, SQL,
Leaflet, AutoCAD, GitHub

PROFILE

Resourceful, self-driven and adaptable GIS expert with six years of professional experience. Skilled in the use of GIS tools, geodatabases, cartography, and GPS data collection to streamline data collection and access and to visualize geospatial information. Have contributed maps, analysis, and support to a diverse range of experts, technicians, and tribal government departments.

WORK EXPERIENCE

GIS CONSULTANT

Falcon Cultural Resources | Skagit County, WA   2019-Present

- Produce archaeological site maps and shapefiles for reports to the DAHP.
- Utilize aerial, LiDAR, USGS topographic basemaps and web services to give historical and ecological context to site areas.
- Provide GPS data processing and support for field data collection.
- Conduct viewshed analysis to visualize prominence of proposed development.

GIS PROPERTY SPECIALIST

Swinomish Indian Tribal Community | La Conner, WA   2014-2017

- Responsible for providing maps, analysis, database maintenance and support for Swinomish government departments and planning projects.
- Contributed to building and maintaining complex databases of government assets and features, including: zoning, parcels, buildings, roads, utilities, and natural and cultural resources.
- Produced maps and property updates by researching and interpreting land surveys, as-builts, legal property descriptions, and county assessor records.
- Managed and maintained GIS data within the Planning Department system and published data for interdepartmental use to ArcGIS Online.
- Worked with Dep. of Environmental Protection to survey and map soil conductivity and assess suitability for crops and restoration efforts.
- Collaborated with project managers to design and configure custom database schemas for ArcGIS Collector apps, enhancing GPS data collection efficiency.

GIS TECHNICIAN

Independent Contractor | Bellingham, WA   2012-2014

- Created a large forest roads database for salmon habitat restoration initiative using Road Maintenance and Abandonment Plan documents, georeferencing maps, and analysis of LiDAR and NAIP aerial imagery for digitization.
- Digitized the Nooksack River active channel footprint at large scale to update the National Hydrography Dataset.
- Assisted in the development of a comprehensive geodatabase and study template for studying steelhead habitat health indicators for the NWIFC.